Milesight

CoWork Kit

iBox CoWork Kit-A Datasheet

Unboxing Your Next Level IoT Adventure

Why CoWork Kit

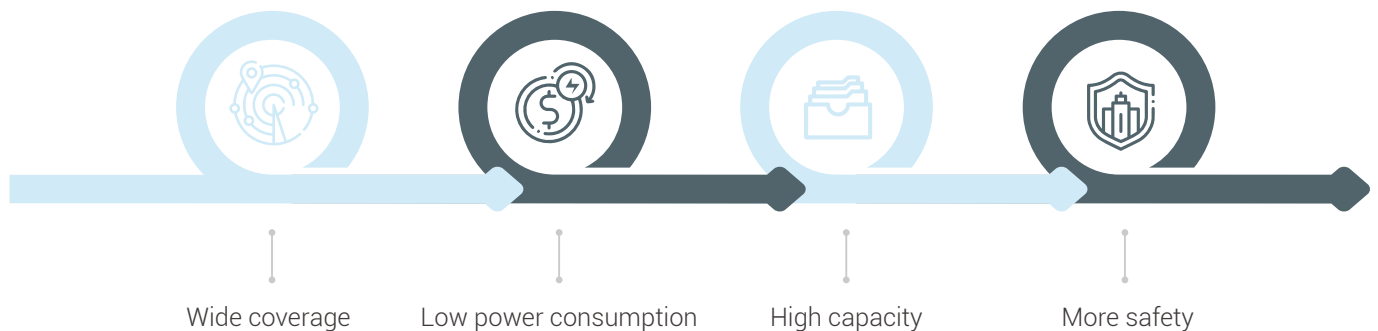Congratulations on beginning the journey of Smart Office towards a greener future.

The Milesight iBox CoWork Kit transforms your workplace into a highly efficient and intelligent environment. From space occupancy and utility to office and power consumption management, two different iBox Kit can meet your various needs, taking your workplace intelligence to new heights.

" Together with IoT solutions, it's easy to obtain operational efficiency, energy saving and workplace optimization." The Milesight Team

Why LoRaWAN®

LoRaWAN® is a long range, wide area, and low-power networking protocol.

Wide coverage   Low power consumption   High capacity   More safety

Why Milesight D2D

Milesight D2D is a device to device communications protocol which enables LoRaWAN® based devices to communicate directly with one another when they are in the same group.

* Independently Developed by Milesight

- Low latency (less than 1 second in the same room)
- Low power for battery operation of both sides
- Long range and as secure as LoRaWAN®
- No useless beaconing and difficult synchronization
- Initial feature which coexists with LoRaWAN®
- No additional hardware and LoRaWAN® gateways are needed

AI Workplace Occupancy Sensor

VS121 delivers curated insights by real-time occupancy data to unleash potential, especially for workplace and buildings.

LoRaWAN®   AI

Overall Features

- Embedded AI Algorithm Realizes Up to 98% Accuracy Counting
- Compliant with GDPR & 100% Anonymous Detection
- 78m² Large Detection Area with 16 Custom Detection Regions
- Bi-Directional People Counting via In/Out Counting
- Smart U-Turn Detection via the U-Shape Tracks of People Flow
- Milesight D2D with Communication Latency to <1 Sec

VS121

Model		VS121
Wireless Transmission	Technology	LoRaWAN® , Milesight D2D
	Frequency	CN470/IN865/RU864/EU868/US91 5/AU915/KR920/AS923-1&2&3&4
	Mode	OTAA/ABP Class C
Measurement	Field of View	Standard Version: 190° Horizontal, 112° Vertical
	Recognition Range	Standard Version: a Radius of 5 Meters, At the Height of 3m
	Recognition Rate	Region Counting: Up to 95% Line Crossing Counting: Up to 98% People Flow Analysis: Up to 98%
	Installation Height	Standard Version: 2.5m to 4m
	Advanced Feature	Mapped Detection Region Customization, Filter U-Turns, Privacy Mask, Dwell Time Detection
Physical Characteristics	Configuration	Wi-Fi
	Power Supply	5 VDC / 1.5A by Type-C Port
	Installation	Ceiling Mounting

* Tested under laboratory conditions and for guideline purposes only

Desk & Seat Occupancy Sensor

VS340 adapts PIR bringing higher accuracy and quick occupancy status detecting. It frees up human resources enabling efficient management in hot desking, dining area, traffic hub, library and etc.

LoRaWAN® **D2D**

Overall Features

- High Precision & Speed
- Adjustable PIR Angles for Flexible Performance
- Up to 98% Ultra-High Accuracy
- 100% Anonymous Detection
- Ultra Low Latency Gains Quick Response
- LoRaWAN® Wireless Deployment with Low Power Consumption
- Milesight D2D with Communication Latency to <1 Sec

VS340

Model		VS340
Occupancy Detection	Technology	PIR
	Recognition Rate	Up to 95%
	PIR Detection Area	107° Horizontal, 107° Vertical
	PIR Detection Distance	Within 1m
Wireless Transmission	Technology	LoRaWAN®, Milesight D2D
	Frequency	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4
	Mode	OTAA/ABP Class A
Physica Characteristics	Power Supply	1 x 4000 mAh ER18505 Li-SOCL2 Battery
	Battery Life**	Around 5 Years (100 Triggers per Day, 25°C)
	Configuration	NFC Configuration via Mobile App
	Operating Temperature*	-20°C ~ +60°C
	Dimension	73 x 73 x 26 mm (2.87 x 2.87 x 1.02 in) (Without PIR Cover)
	Installation	3M Tape Mounting, Wall Screw Mounting

* Tested under laboratory conditions and for guideline purposes only.

IoT E-ink Display

DS3604 with high-definition e-ink display is great for flexible content presentation in retail, warehouse and logistics management, smart production lines and more.

Overall Features

- Bigger E-ink Screen Featuring Red/White/Black Color Display
- Customized Templates in Multiple Modules and Languages
- Low Power Consumption with up to 5 Years Battery Life
- Open API and a LoRaWAN® Button Enable Various Applications
- Support Local and Remote Control for Bulk Deployment
- LoRaWAN® Wireless Deployment with Low Power Consumption

DS3604

Model		DS3604
Wireless Transmission	Technology	LoRaWAN®
	Frequency	CN470/ IN865/RU864/EU868/US915/AU915/KR920/AS923- 1&2&3&4
	Mode	OTAA/ABP Class A/Class B (Default OTAA Class B)
Display	E-Ink Screen	4.2-inch Black & White & Red E-Ink Screen
	Resolution	400 x 300 Pixels
	Refresh Rate	16s (10 - 40°C)
Physical Characteristics	Configuration	NFC
	Battery Life*	Around 5 Years (Class A Mode + 1 Screen Refresh per Day) Around 1 Year (Class B Mode + 12 Screen Refreshes per Day)
	Operation Temperature	0°C ~ +40°C
	Dimension	99 × 87 × 10.5 mm (3.90 × 3.43 × 0.41 in)
	Installation	3M Tape Mounting, Wall Screw Mounting

* Tested under laboratory conditions and for guideline purposes only.

Industrial LoRaWAN® Gateway

UG56 is a high-performance 8-channel LoRaWAN® gateway that offers reliable connectivity for industrial applications.

UG56

Overall Features

- Industrial-Grade Design with Compact Size
- Stay Connected via Ethernet, Cellular, and Wi-Fi
- Gateway Fleet for Comprehensive Networking
- Listen Before Talk (LBT) for Downlink Data Integrity
- Semtech SX1302 Chip with High-Performance Quad-Core CPU
- Embedded Network Server Compatible with TTN, ChirpStack, Everynet, Senet, etc.
- BACnet/IP Support for Seamless Integration into Existing Building Management Systems (BMS)

Model		UG56
LoRaWAN®	Chipset	SX1302, 8 Channels (Half-duplex)
	Antenna	1 × 50 Ω SMA Connector (Center PIN: SMA Female)
	Frequency	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4
	Protocol	V1.0 Class A/Class B/Class C and V1.0.2 Class A/Class B/Class C
Connectivity	Ethernet	1 x RJ45 PoE PD Port, 10/100 Base-T (IEEE 802.3)
	Wi-Fi	IEEE 802.11b/g/n, 2.4 GHz
	Cellular (Opt.)	1 x Mini SIM-2FF Slot, Support Global GSM/3G/4G LTE Frequency Bands
Hardware	CPU	Quad-core 1.3 GHz, 64-bit ARM Cortex-A35
	Power Supply	① 1 × 802.3af Standard PoE Input ② 5V, 2A by Type-C Port
Physical Characteristics	Ingress Protection	IP30
	Dimension	110 x 75 x 24 mm (4.33 x 2.95 x 0.94 in)
	Installation	Desktop, Wall Mounting

Milesight IoT Cloud

Milesight IoT Cloud provides unparalleled levels of vertical integration with Milesight LoRaWAN® devices.

AWS Built on AWS to Provide Confidential and Reliable Infrastructure

Licensing with Ease: Just Copy & Paste and Upgrade Is Done

*Get the **Free Trial** now and begin your data-driven future.*

Transform Real-Time and Historical Data into Drag-and-Drop Widgets on Dashboard

Control Access and Monitor Projects from Anywhere

Email and Mobile Push Notifications based on Triggered Events
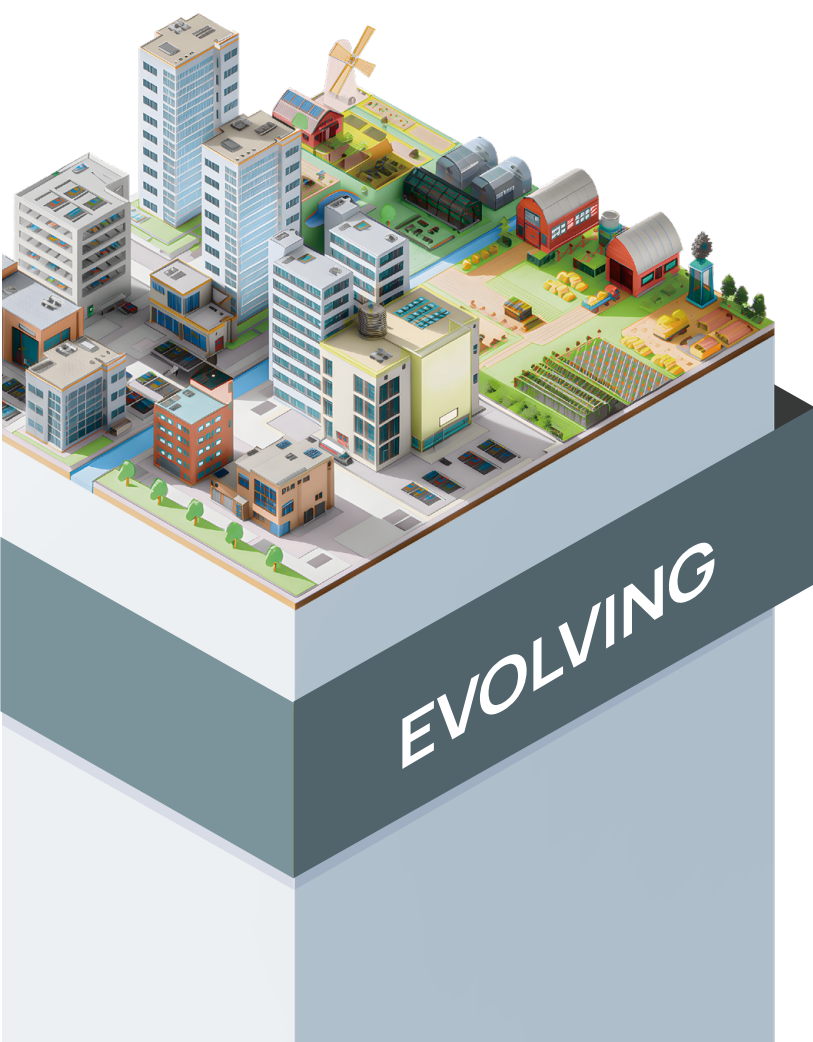
Milesight

You Can Always Trust Us

Milesight is a multi-dimensional sensing products company transforming how the world is perceived and connected, and delivering safety, efficiency, and business insights.

Our mission is to digitalize the world with connected sensors, deliver the most accurate and valuable data, and extract actionable insights with our partners.

Our vision is to continuously drive the society and environment towards a more connected, efficient, and sustainable future.

EVOLVING

· AM319   · AM307
· AM103   · AM102L
· UG56
· Milesight IoT Cloud

*Enjoy free cloud services for a specified period of time

Indoor Air Quality Solution

iBox IAQ Kit

· VS121   · VS340
· DS3604   · UG56
· Milesight IoT Cloud

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Smart Office Solution

iBox CoWork Kit-A

· VS121   · WS101
· WS301   · WS156
· UC100   · UG56
· Milesight IoT Cloud

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Smart Office Solution

iBox CoWork Kit-B

· WS101   · WS201
· GS301   · VS330
· UC100   · UG56
· Milesight IoT Cloud

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Smart Restroom Solution

iBox Smart Restroom Kit

· WS101   · WS301
· AM103   · WS303
· WS558   · UC300
· UG56
· Milesight IoT Cloud

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Smart Building Solution

iBox Smart Building Kit

· EM500-SMTC
· UC511
· UG56
· Milesight IoT Cloud

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Smart Agriculture Solution

iBox Smart Agriculture Kit

Don't Know Where to Start? Talk with Our Experts

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